



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Approve Plans and Specifications and Authorize Advertisement for Bids for White Slough Water Pollution Control Facility Aeration Blower Replacement

MEETING DATE: April 16, 2003

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council approve the plans and specifications for the White Slough Water Pollution Control Facility Aeration Blower Replacement project and authorize advertising for bids.

BACKGROUND INFORMATION: This project consists of replacing four 10+-year-old aeration blowers, which supply air to the facility's biological treatment process. The aeration blowers are critical to plant performance and are in need of replacement to maintain effluent quality. The four aeration blowers being replaced were installed during the 1989 plant expansion. Modeling performed by our design consultant, West Yost & Associates, has determined that dissolved oxygen deficiencies are occurring due to lack of adequate aeration capacity. If the deficiency is not rectified, the low dissolved oxygen will ultimately lead to failure of the biological process and discharge violations, resulting in fines to the City.

Staff and our consultant have determined that the best method to mitigate the situation involves replacement of the aeration blowers and partial replacement of the aeration diffusers. Partial replacement of the diffusers reduces the need for larger blowers to supply the ultimate air needs of the Facility. This not only saves initial capital cost, but long-range electric costs as well. The plans and specifications for the diffuser purchase will be submitted to the Council at a later date.


As part of this bid, a guaranteed price quote for later purchase of the ancillary appurtenances is being sought. This quote will be used in choosing the lowest responsible bidder, but the ancillary appurtenances will not be purchased at this time. The project estimate listed below includes the cost of the blowers and appurtenances only. An installation contractor will be chosen to install the blowers. This contractor will purchase the appurtenances as part of their contract.

This bid process has been chosen due to the lead-time needed to manufacture the blowers. The blower installation is planned for the end of 2003. To meet this timeframe, the blower purchase needs to be undertaken very soon. The installation cost, the appurtenances, and the diffusers are intended to be purchased with a State Revolving Fund loan.

The plans and specifications are on file in the Public Works Department.

FUNDING: The money for this project will be coming from the Wastewater Fund. A request for appropriation of funds will be made at contract award.

Project Estimate: \$355,000
Budgeted: 2003/04 fiscal year
Planned Bid Opening Date: May 6, 2003


Richard C. Prima, Jr.
Public Works Director

Prepared by Del Kerlin, Assistant Wastewater Treatment Superintendent
RCP/FEF/DK/mg

cc: Purchasing Officer

Water/Wastewater Superintendent

Asst. Wastewater Treatment Superintendent

APPROVED: 

H. Dixon Flynn -- City Manager